

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/005360 A2

(51) International Patent Classification⁷: **C08F 10/00**

(21) International Application Number:
PCT/EP2003/007485

(22) International Filing Date: 9 July 2003 (09.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/394,614 9 July 2002 (09.07.2002) US

(71) Applicant (for all designated States except US): **BASELL POLYOLEFINE GMBH** [DE/DE]; Brühler Strasse 60, 50389 Wesseling (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RESCONI, Luigi** [IT/IT]; Via Arianuova, 56/B, I-44100 Ferrara (IT). **FOCANTE, Francesca** [IT/IT]; Via Imbrecciata, 21, I-60024 Filottrano (IT). **CAMURATI, Isabella** [IT/IT]; Vicolo Mozzo della Vittoria, 2, I-44100 Ferrara (IT). **GUIDOTTI, Simona** [IT/IT]; Piazza della Pace, 5, I-40051 Altedo-Malalbergo (IT).

(74) Agent: **COLUCCI, Giuseppe**; Basell Poliolefine Italia S.p.A., Intellectual Property, P.le G. Donegani, 12, I-44100 Ferrara (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

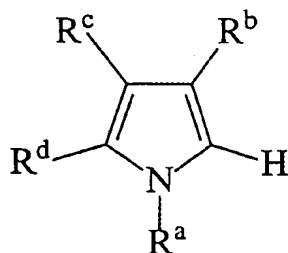
Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/005360 A2

(54) Title: CATALYST SYSTEM FOR THE POLYMERIZATION OF OLEFINS



(I)

(57) Abstract: An organometallic compound obtainable by contacting: a compound having the following formula (I), wherein: R^a is a hydrocarbon radical; R^b, R^c and R^d are hydrogen atoms, halogen atoms, or hydrocarbon radicals; with a Lewis acid of formula (II) MtR¹₃ (II) wherein Mt is a metal belonging to Group 13 of the Periodic Table of the Elements; R¹ are selected from the group consisting of halogen atoms, halogenated C₆-C₂₀ aryl and halogenated C₇-C₂₀ alkylaryl groups.